

ABSTRACT

5 The invention herein comprises a polymer bilayer which eliminates the spontaneous release of an active molecule by ion exchange. The spontaneous release is slowed by the application of a second polymer layer to the top of the electroactive polymer. The electroactive bilayer is preferably polypyrrole. The second polymer layer is preferably poly(vinyl butyral), poly(vinyl acetate) or nafion. This second layer stops the spontaneous release of the active molecule. The active molecule will usually
10 be a pharmaceutical agent or drug. This bilayer allows a more effective controlled drug delivery system wherein the quantities and timing of the drugs can be given to the human being/animal patient with a high degree of certainty and predictability.